

ABSTRACT

An apparatus and method in which one or more taggants that are intrinsically located—or extrinsically placed—in an article or product. The taggants are detected
5 by x-ray fluorescence analysis to identify or verify the article or its point of manufacture. The taggants are manufactured as part of the article or the taggant is placed into a coating, label, or otherwise embedded within the article for the purpose of later verifying the presence or absence of these elements by x-ray fluorescence, thus determining the unique elemental composition of the taggant within the article.